

DTIC FILE COPY

DATE

Aug. 3, 1989

TO: Information Services Branch

FROM: Computer Products Support Group

Gresham  
(Init)

Kr  
(Init)

LY  
(Init)

RE:

DOD/SW/DK-89/021  
(REPORT NO.)

ANNOUNCE IN GRA & I

PRIORITY ACTION IS REQUIRED

Attached

☒ Form NTIS 231

☒ Form 277/FCPC-01

☒ NTIS 79

☒ ROP (OF 272)

☐ Consigned Inventory Acquisition  
Form (Interagency Agreement  
Number and Split)

Process for:

☐ Documentation

K File  
(Data)

☐ Mag Tape

☐ Diskette

H File  
(Software)

☒ Documentation

☐ Mag Tape

☒ Diskette

DTIC

ELECTE

AUG 22 1989

Action:

☒ Defense Sponsored: Acquire ADA Number

☐ Order Pending. Return immediately after  
copying necessary pages.

☐ Forward processing pages for documentation to Document Control Section.

☐ Subscription request \_\_\_\_\_ copies

☐ Shelf Stock request \_\_\_\_\_ copies

☐ Regular Processing. Do not send to Document Control Section.

Remarks:

[REDACTED]

89

8

18

001

AD-A212 274

DISTRIBUTION STATEMENT A

Approved for public release;

Distribution Unlimited

# COMPUTER DISKETTE FILE PROPERTIES

01. Completion Date <table border="1" style="width: 100%; text-align: center;"> <tr> <td colspan="2">Year</td> <td colspan="2">Month</td> <td colspan="2">Day</td> </tr> <tr> <td>8</td><td>9</td> <td>0</td><td>8</td> <td>0</td><td>1</td> </tr> </table>			Year		Month		Day		8	9	0	8	0	1	02. Long Title Subspace Iteration Algorithms in FORTRAN 77 and FORTRAN 8x			03. Short Title Subspace Iter. in FORTRAN 77 and FORTRAN 8x		
Year		Month		Day																
8	9	0	8	0	1															
04. Copying Date <table border="1" style="width: 100%; text-align: center;"> <tr> <td colspan="2">Year</td> <td colspan="2">Month</td> <td colspan="2">Day</td> </tr> <tr> <td>8</td><td>9</td> <td>0</td><td>8</td> <td>0</td><td>1</td> </tr> </table>			Year		Month		Day		8	9	0	8	0	1	05. Subscription <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		06. <input checked="" type="checkbox"/> New Product <input type="checkbox"/> Replacement		07. Number of Diskettes  1	
Year		Month		Day																
8	9	0	8	0	1															
08. Submitting Organization and Address AFWAL/FIBRA Wright-Patterson AFB, OH 45433-65553				09. Technical Contact(s) and Phone Nelson Wolf (513) 255-6992																
10. Host Computer/Model  IBM PC or compatible			11. Memory Requirement			12. Language/Format  FORTRAN 77/FORTRAN 8x														
13. Diskette Size <input type="checkbox"/> 3 1/2 <input checked="" type="checkbox"/> 5 1/4 <input type="checkbox"/> Other _____		14. Diskette Capacity <input checked="" type="checkbox"/> 360K <input type="checkbox"/> 1.2M <input type="checkbox"/> 720K <input type="checkbox"/> 1.44M <input type="checkbox"/> 800K <input type="checkbox"/> Other			15. Operating System/Version  MS DOS															
16. Number of Files		17. Number of Records			18. Record Length															
19. Documentation <input checked="" type="checkbox"/> on Diskette (File # _____) <input type="checkbox"/> Paper Copy																				
20. Supplemental Information																				
21. For Submitting Organization Use																				

☐ DELETE☒ NEW☐ REPLACE☐ CORRECTIONNTIS COMPUTER PRODUCTS  
CATALOG DATA SHEET

1. ACCESSION NO.

2. CONTRIBUTING AGENCY REPORT NO.

3. SUBJECT

DOD/SW/DK-89/021

4. PRODUCT (circle one)

DATA FILE

SOFTWARE

MODEL, SIMULATION

5. AGENCY, BUREAU, DIVISION, AND ADDRESS

Flight Dynamics Laboratory  
Air Force Wright Aeronautical Laboratories  
Air Force Systems Command  
Wright-Patterson Air Force Base, Ohio 45433-6553

6. PRODUCT NAME (Use agency nomenclature)

Subspace Iteration Algorithms in FORTRAN 77 and FORTRAN 8x

7. DESCRIPTORS OF PRODUCT (Keywords, identifiers, etc.) \*

Software .

Eigenvalues,  
Eigenvectors,  
Subspace Iteration,  
Computer Software,  
Supercomputing,  
Diskette

8. DATES OF COVERAGE (For one-time reports, use as-of-date, for software,  
use date and release no.)

February 1988 to December 1988

9. FILE SIZE IN NO. OF:

REELS

DISKETTES

10. AVAILABILITY STATEMENT - AGENCY NAME AND ADDRESS, ORDER NO., ETC. (If NTIS sells, leave blank)

No restrictions

11. PRICE INFORMATION

Price Code: D01

*Includes documentation.*

12. GEOGRAPHIC SCOPE

13. TECHNICAL REPRESENTATIVES (List at least one for subject and one for media)

NAME

TITLE

PHONE NO.

Nelson Wolf

(513) 255-6992

14. DOCUMENTATION

☒ AVAILABLE as:

EXPECTED AVAILABILITY DATE

## 15. COMPUTER PRODUCT ABSTRACT

The diskette contains a USA FORTRAN ANSI x3.9-1978 implementation of the Rutishauser-Reinsch subspace iteration algorithm for partial solution of the algebraic eigenvalue problem for a real matrix symmetric relative to a prescribed inner product...Software Description: The program is written in FORTRAN 77 and FORTRAN 8x programming languages for implementation on an IBM/PC or compatible.



Accession for	
NTIS CRA&I	<input checked="" type="checkbox"/>
DTIC TAB	<input type="checkbox"/>
Unannounced	<input type="checkbox"/>
Justification	
By <i>ADubette</i> <sup>50.00</sup> NTIS	
Distribution/	
Availability Codes	
Dist	Avail and/or Special
A-1	21

## 16. DATA FILE TECHNICAL DESCRIPTION

The software is contained on 5 $\frac{1}{4}$ -inch diskette(s), double density (360K), compatible with the IBM PC microcomputer. The diskettes are in the ASCII format.

## 17. SOFTWARE TECHNICAL DESCRIPTION

Software is written in;

Fortran 77 COBOL \_\_\_\_\_ Basic \_\_\_\_\_ Assembly \_\_\_\_\_ Other (Specify) FORTRAN 8x

Software requires;

CPR Mfr. IBM Model(s) PC compatible Operating system(s) MS DOS  
 Minimum of \_\_\_\_\_ K bytes core. The following special features and/or additional requirements in hardware:

SIGNATURE OF AGENCY REPRESENTATIVE, PHONE NO., AND DATE

SIGNATURE OF NTIS REPRESENTATIVE AND DATE FORM PREPARED

*page 61*